

**IMPORTANT!**

This specification is intended for use with **“YVA” Series Line Valve Assemblies.**  
**MAKE SURE YOU ARE USING THE CORRECT SPECIFICATION!**

**REFERENCE DATA:**

**Pressure**

Proof: 25,000 PSIG Minimum  
Test: System Service Pressure up to 6000 PSIG Maximum

**Temperature - Storage**

Minimum: -65 F  
Maximum: 155 F

**Temperature - Operating**

Minimum: -50 F  
Maximum: 120 F

**Cycle Life:**

Minimum: 5000 cycles

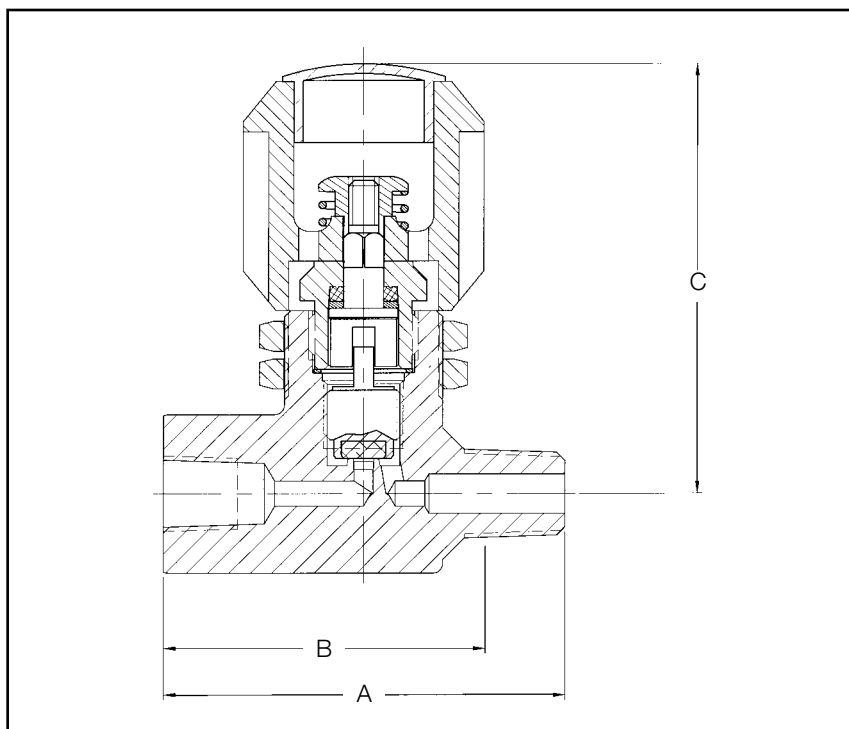
**CONFORMS TO ALL  
REQUIREMENTS OF:**

MIL-DTL-2E DOD  
Specification for Gas Cylinder Valves

CGA V-9  
Standard for Gas Cylinder Valves

CGA S - 1.1  
Standard for Pressure Relief Devices

CGA V-1  
Compressed Gas Cylinder Valve  
Outlet and Inlet Connections



**“YVA” SERIES LINE VALVES**

(See Repair Section for detail parts breakdown)

**TORQUE VALUES FOR “YVA” SERIES LINE VALVES**

Description	Torque
Operating Torque @ 0 PSIG Inlet Pressure	1 - 2 in. lb.
Closing Torque @ 2000 PSIG Inlet Pressure	2 - 3 in. lbs.
Bonnet Installation Torque	25 to 30 ft. lbs.
Stem Nut Installation Torque	Nut Flush with top of Stem

**MATERIALS OF CONSTRUCTION FOR “YVA” SERIES LINE VALVES**

Part Description	Material of Construction
Body	Forging Brass UNS Alloy #37700, Chrome Plated
Bonnet	Free Machining Brass, UNS ASTM B-16-53, Chrome Plated
Gasket	Copper
Handwheel	Lexan®
Handwheel Cap	Lexan®
Lower Plug	Leaded Naval Brass, UNS Alloy #C34200
Lower Plug Seat	Nylon: Zytel® 101 or Celanese 1000-11
Packing (3506-18)	Viton®
Packing (3506-7)	Virgin Teflon®
Panel Mount Nut (as required)	Free Machining Brass, UNS Alloy #36000, Chrome Plated
Spring	Type 302 Stainless Steel, Passivated
Stem	Aluminum Silicon Bronze Alloy # 708-8, Nickel Plated
Stem Nut	Free Machining Brass, UNS Alloy 36000

**FLOW AND DIMENSIONS FOR “YVA” SERIES LINE VALVES: FOR ALL OUTLET TYPES**

FLOW DATA	Seat Orifice Diameter (inches)		0.120
	Flow Constant: Cv - Full Open		0.284
	Flow CFM @ 2000 PSIG Inlet		280
APPROXIMATE DIMENSIONS (INCHES) FOR ALL INLET TYPES	Overall Length	(A)	2.50
	Length of Valve Installed in Line*	(B)	2.11
	Centerline of Inlet to Top of Handwheel	(C)	2.70

\* Valves with tapered threaded inlets are calculated to 7 ¾ threads engagement.